

**Rainy Days.**—The number of days on which rain fell during the month varies from 11 to 17 in New England; 10 to 18 in the Middle States; 9 to 21 in the Southern States east of the Mississippi; 9 to 13 in the Southwest; 9 to 18 in the Lake region; 14 to 17 in the Ohio valley; and 8 to 15 in the Northwest.

**Fog.**—Fog has been frequent only on the coast of New England and at San Francisco.

**Heavy Rains** are reported as follows: Baltimore, 3.14 in. on the 30th; Charleston, 4.87, 16th, and 3.01, 24th; Dubuque, 4.55, 5th; Keokuk, 5.28, 4th and 5th; New Haven, 7.15, 30th and 31st; Newport, 3.45, 23d; Savannah, 3.56, 24th and 25th; Tybee Island, 4.50, 30th; Washington, 4.12, 30th; Southington, Conn., on 30th and 31st, 4.10; Middletown, Conn., on 30th and 31st, 5.75; Riley, Ill., 10th, 3.50; near Independence, Iowa, heavy rain on 4th, damaging railroads, &c.; Ames, Iowa, 1.66 in one hour, 4th; Stanley, Kan., wind and rain-storm 28th, damaging crops, fruits, &c.; Mendon, Mass., all the rain of month, 5.40, fell on 23rd, 30th and 31st; Worcester, Mass., from 3:46 p. m., 30th, to 7 a. m., 31st, 4.55; Waltham, Mass., 4.04 during 24 hours ending 3:40 p. m., 31st; Wet Glace, Mo., 3.90, 12th, and 3.40, 15th; "cloud bursts" in Nevada, at Gold Hill, 22nd and 24th, Genoa 20th, Eureka, 24th; Snowville, Va., 4.7 on 21st, causing damaging floods.

**Snows.**—Snow occurred at Pike's Peak on the 14th, 15th and 18th; Mt. Washington, 25th and 26th. Carson City, Nev., snowing on mountains on 7th.

**Drought.**—Rain needed at Mt. Desert, Me., 21st; drought, May 10th to July 22d, Fall River, Mass.; fruit injured by drought and springs low, Litchfield, Mich., 21st; month dry, vegetation scorched, Minneapolis, Minn.; rain needed for corn and cotton crops, Brookhaven, Miss., 31st; crops much damaged by droughts, Richmond, Neb., 31st; drought until 20th, Auburn, N. H.; drought from June 20th to July 22d, Newark, N. J.; drought to 29th, New Germantown, N. J.; very little rain from June 5th to July 23d, Brookhaven, N. Y.; drought very severe at North Hammond, N. Y., 17th; at Kensico, N. Y., crops suffering for rain first part of month; Stapleton, drought June 21st to July 11th; Flushing, N. Y., no rain until 10th; Farmingdale, N. Y., drought until 30th; Nottaway, Va., drought until 10th; Lynchburg, Va., drought very severe, from June 25th to July 28th; Newport, R. I., drought until 23d.

**Hail.**—2nd, Mendon, Mass.; Ringgold, Ohio; 3rd, Afton, Iowa; 4th, DeSoto, Neb.; 6th, Rockford, Iowa; 7th, Mt. Auburn, Ohio; 9th, Middletown and New London, Conn.; 13th, Richmond, Neb., Le Roy, Wis., Pike's Peak; 14th, Shelburne, N. H.; Pike's Peak, 17th, near Nora Springs, Iowa, Genoa, Neb.; 18th, 22nd and 23d, Pike's Peak; 25th, Buffalo, Rochester and Denver; 26th, Cornish, Me., Pike's Peak; 28th, Afton, Iowa; 29th, Durham, Ark., Purdy, Tenn.

## RELATIVE HUMIDITY.

The relative humidity, as reported from the Signal Service stations, averages from 68 to 82 per cent. at the stations on the New Jersey and New England coasts; from 61 to 71 at the stations in the interior of the Middle and Eastern States; from 65 to 77 in the Southern States and Ohio valley; from 68 to 78 in the Lake region; and from 65 to 75 in the Upper Mississippi and Lower Missouri valleys. It is, as usual, lowest on the western plains and the Rocky mountains, being 54 at Bismarck, Dak., and North Platte, Neb., 48 at Colorado Springs, 39 at Denver, 35 at Cheyenne, and 30 at Salt Lake City. The mean of Pike's Peak is 78 and that of Mt. Washington 90.

## WINDS.

**Prevailing Winds.**—The prevailing winds for the month are shown by the arrows on Chart No. II. They have been mostly from the south or southeast in the Gulf States, and Lower Missouri valley; from the south or southwest in the South Atlantic States, Tennessee, the Ohio valley and New England, but have been more variable in the Middle States, the Lake region and the Upper Mississippi valley.

**Total Movements of the Wind.**—At the Signal Service Stations, the largest monthly movements are, as follows: Mt. Washington, 23,762 miles; North Platte, 12,242; Cape Lookout, 12,020; Dodge City, 11,311; Fort Sully, 10,173; Breckenridge, 9,993; Pike's Peak, 9,456. The smallest total movements are: Wytheville, 2,025 miles; Lynchburg, 2,244; Augusta, 2,320; Nashville, 2,569; Burlington, Vt., 2,739; Shreveport, 2,837; Vicksburg, 2,851. These figures plainly indicate a region of very high winds in the western portions of Kansas, Nebraska, Minnesota, and southwestern Dakota, and an extensive region of light winds in the interior of the Southern States.

**Highest Winds.**—Among the highest wind-velocities reported from the Signal Stations are the following: Bismarck, 19th, NW., 56 miles per hour; Buffalo, 5th, SW., 60; Breckenridge, 44; Cape May, 4th, W., 48; Denison, 8th, 40; Dodge City, 3rd, S., 46; Escanaba, 56; Fort Sully, 4th, 54; Indianola, 14th, 55; Mt. Washington, 84; North Platte, 7th, 57; Pike's Peak, 8th, 50; Philadelphia, 20th, 40; Port Huron, 5th, 46; St. Paul, 6th, 54; Sandy Hook, 11th, NW., 50; Toledo, 5th, 40.